

GIS REGISTRY INFORMATION

SITE NAME: FOX VALLEY AND WESTERN - APPLETON REFUELING

BRRTS #: 02-45-129856 FID # (if appropriate):

COMMERCE # (if appropriate):

CLOSURE DATE: 09/16/2003

STREET ADDRESS: WHITMAN AVENUE AND SECOND STREET

CITY: APPLETON

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 644914 Y= 421408

CONTAMINATED MEDIA: Groundwater ☐ Soil ☐ Both ☒

OFF-SOURCE GW CONTAMINATION >ES: ☐ Yes ☒ No

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection): X= Y=

OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL): ☐ Yes ☒ No

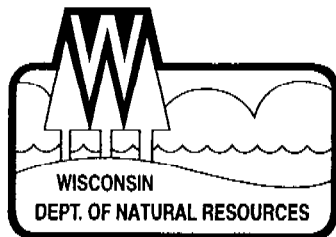
IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection): X= Y=

CONTAMINATION IN RIGHT OF WAY: ☐ Yes ☒ No

DOCUMENTS NEEDED:

Closure Letter, and any conditional closure letter issued	X
Copy of most recent deed, including legal description, for all affected properties (RAILROAD PROPERTY NO DEED REQUIRED)	
Certified survey map or relevant portion of the recorded plat map (if referenced in the legal description) for all affected properties	X
County Parcel ID number, if used for county, for all affected properties	
Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.	X
Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.	X
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	X
Tables of Latest Soil Analytical Results (no shading or cross-hatching)	X
Isoconcentration map(s), if required for site investigation (SI) (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. If not available, include the latest extent of contaminant plume map.	X
GW: Table of water level elevations, with sampling dates, and free product noted if present	X
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)	X
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour	X
Geologic cross-sections, if required for SI. (8.5x14" if paper copy)	
RP certified statement that legal descriptions are complete and accurate	X
Copies of off-source notification letters (if applicable)	
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)	
Copy of (soil or land use) deed restriction(s) or deed notice if any required as a condition of closure	



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 East County Road Y, STE 700
Oshkosh, Wisconsin 54901-9731
TELEPHONE 920-424-3050
FAX 920-424-4404

September 16, 2003

Geoffrey Nokes
CN Environment
17641 South Ashland Avenue
Homewood, IL 60430-1345

SUBJECT: Final Case Closure With Condition Met for
Fox Valley & Western -- Refueling Station,
Whitman Ave & Second St, Appleton, Wisconsin
WDNR BRRTS # 02-45-129856

Dear Mr. Nokes:

On July 21, 2003, your request for closure of the case described above was reviewed by the Northeast Region Closure Committee. The Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. On July 30, 2003, you were notified that conditional closure was granted to this case.

On September 8, 2003, the Department received correspondence indicating that you have complied with the conditions of closure. Abandonment forms for monitoring wells, MW-1 through MW-7 were received. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit <http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

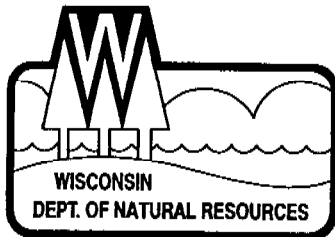
If you have any questions regarding this letter, please contact me at (920) 424-7887.

Sincerely,

Jennifer Borski
Hydrogeologist, Bureau for Remediation & Redevelopment

Electronic Copy: Bob Mottl, STS





State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 East County Road Y, STE 700
Oshkosh, Wisconsin 54901-9731
TELEPHONE 920-424-3050
FAX 920-424-4404

July 30, 2003

Geoffrey Nokes
CN Environment
17641 South Ashland Avenue
Homewood, IL 60430-1345

Subject: Conditional Case Closure for Fox Valley & Western – Refueling Station,
Whitman Ave & Second St, Appleton, Wisconsin
WDNR BRRTS # 02-45-129856

Dear Mr. Nokes:

On July 21, 2003, your request for closure of the case described above was reviewed by the Northeast Region Closure Committee. The Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases.

After careful review of the closure request, the Closure Committee has determined that the petroleum contamination on the site from the former refueling area appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following condition is satisfied:

MONITORING WELL ABANDONMENT

The monitoring wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to me on Form 3300-5B found at www.dnr.state.wi.us/org/water/dgw/gw/ or provided by the Department of Natural Resources

When the above condition has been satisfied your case will be closed. Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit <http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

If you have any questions regarding this letter, please contact me at (920) 424-7887.

Sincerely,

Jennifer Tobias
Hydrogeologist
Bureau for Remediation & Redevelopment

Electronic Copy: Bob Mottl, STS



A parcel of land located in the Northwest quarter of Section 34, Township 21 North, Range 17 East, City of Appleton, Outagamie County, Wisconsin. Being more particularly described as follows and as identified on sheet 2 of 2:

Commencing at the Northwest corner of said Section 34;

thence S 0°01'37" W along the West line of said Section 34, a distance of 1107.05 feet,

thence S 89°58'23" E, a distance of 109.33 feet to the POINT OF BEGINNING;

thence N 68°51'25" E, a distance of 96.71 feet,

thence S 43°04'17" E, a distance of 28.21 feet,

thence S 18°40'41" E, a distance of 110.50 feet,

thence S 80°08'31" W, a distance of 48.56 feet,

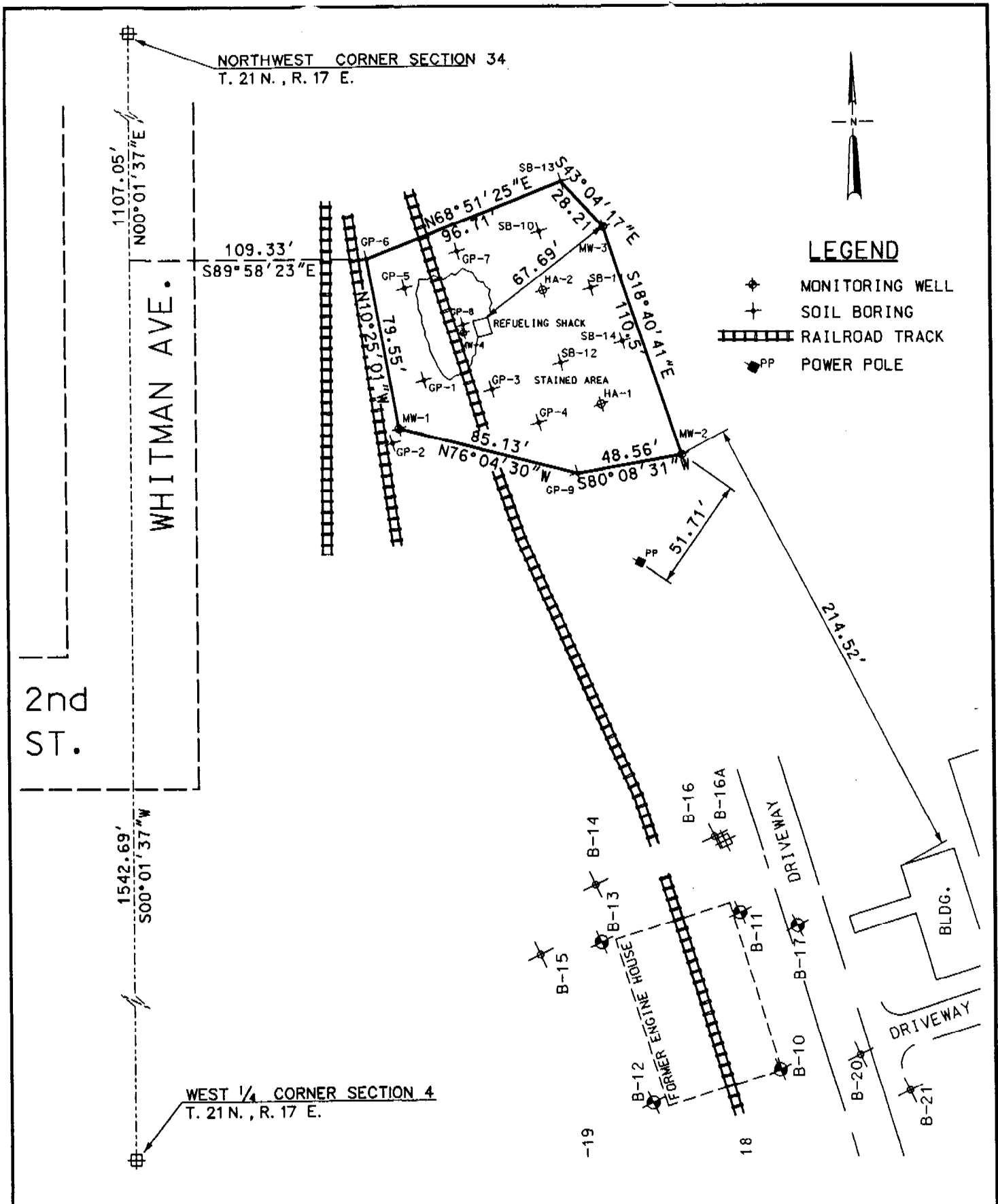
thence N 76°04'30" W, a distance of 85.13 feet,

thence N 10°25'01" W, a distance of 79.55 feet to the POINT OF BEGINNING.

Said parcel contains 13097.35 square feet or 0.30 acres and is subject to all easements and other matters of record.

This instrument drafted by: Francis M. Heafy RLS # 2079

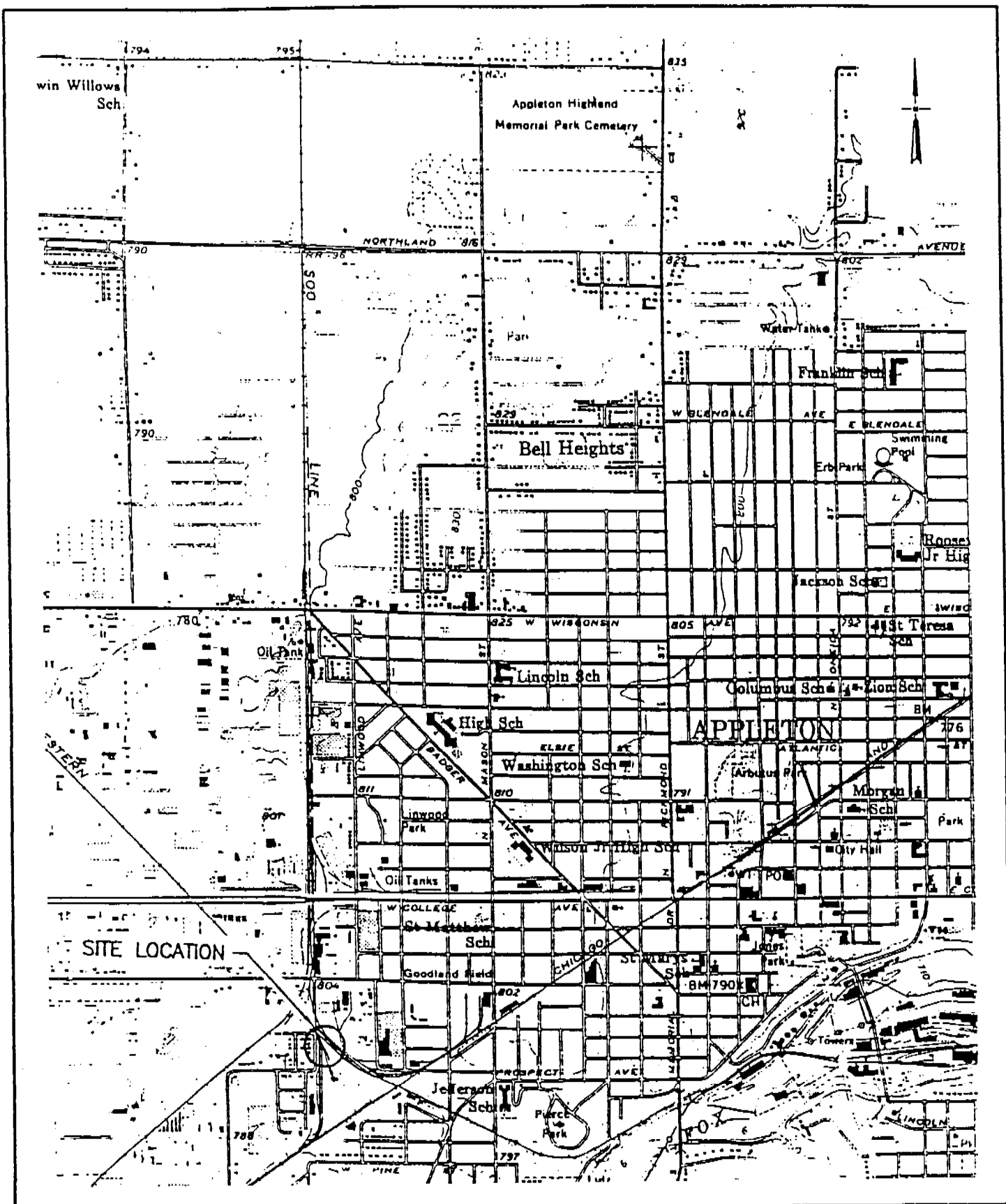
x:\projects\dwg99\22033\survey\22033svlb.dgn
24 SEP 1993:17:19



STS Consultants Ltd.
Consulting Engineers

**WISCONSIN CENTRAL RAILROAD
APPLETON YARD
FORMER REFUELING STATION
GROUNDWATER USE RESTRICTION**

DRAWN BY	FMH	9/99
CHECKED BY	RJM	9/99
APPROVED BY	RJM	9/99
CADFILE	SCALE	
... \22033svlb.dgn	1"=60'	
STS PROJECT NO.	SHEET NO.	
22033XF	2 of 2	

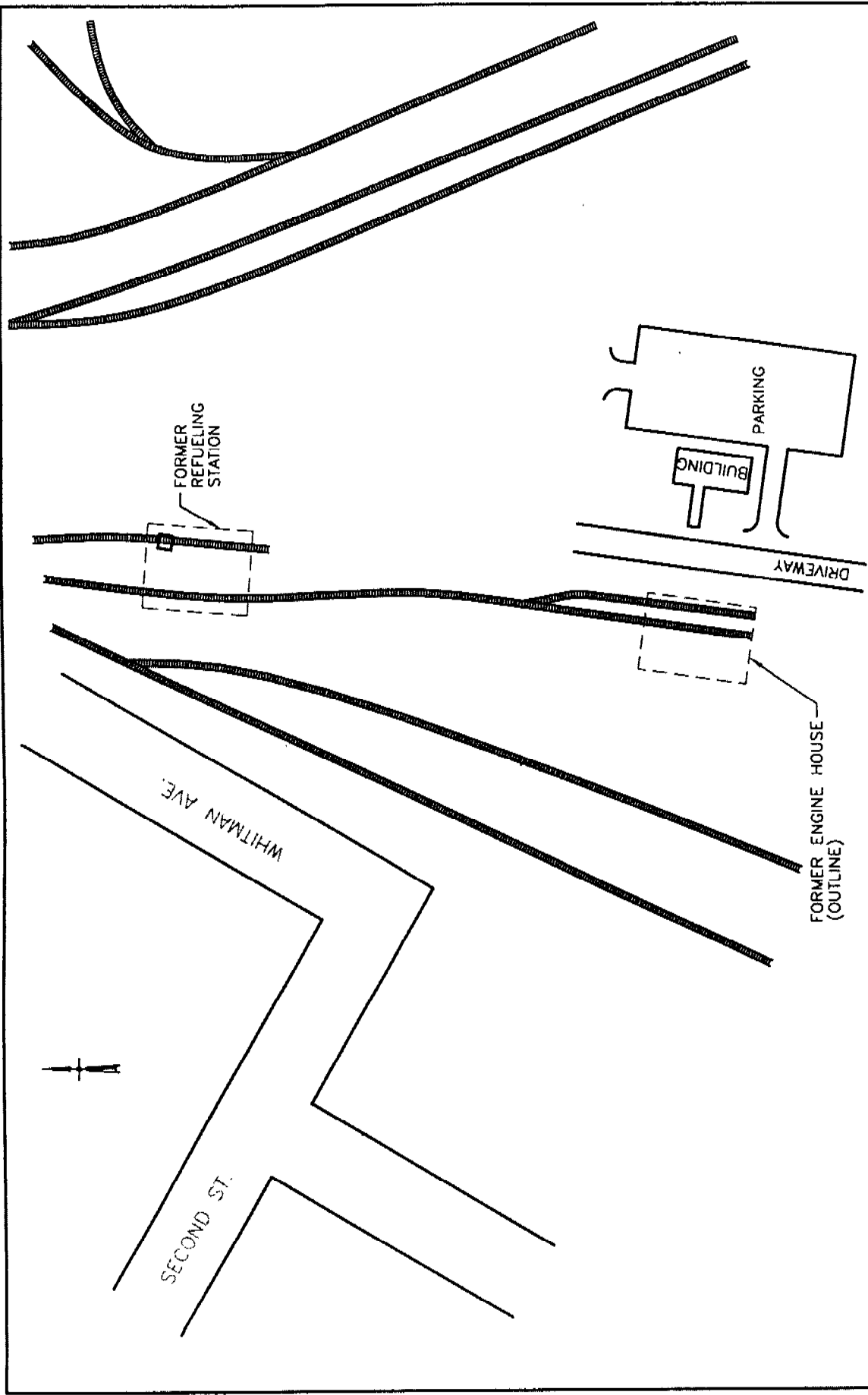


STS Consultants Ltd.
Consulting Engineers

PROJECT/CLIENT

APPLETON YARD
APPLETON, WISCONSIN
SITE LOCATION DIAGRAM

DRAWN BY	RAB	8/23/96
CHECKED BY	BC	8/23/96
APPROVED BY	MBB	4-30-97
SCALE	FIGURE NO.	
1" = 2000'	1	
STS DRAWING NO.		
W:\DWG96\22033\XA\G433FD01.DWG		



INVESTIGATION AREAS
APPLETON YARD
APPLETON, WISCONSIN



STS PROJECT NO.	22033XA
STS PROJECT FILE	
SCALE	1"=100'
FIGURE NO.	2

DRAWN BY	RAB	DATE	3-21-97
CHECKED BY	RJM	DATE	3-21-97
APPROVED BY		DATE	
CAD FILE	W:\DWG87\22033XA\G433F002.DWG		

TABLE 2
GROUNDWATER FIELD DATA SUMMARY
APPLETON YARD - FORMER REUELING STATION
APPLETON, WISCONSIN

Monitoring Well	Well Screen Elevation (feet)	Sand Pack Elevation (feet)	Date Sampled	TPVC Elevation* (feet)	Water Level TPVC (feet)	Water Elevation (feet)	Pre-Purge DO (mg/L)	Post-Purge DO (mg/L)	Ferrous Iron (mg/L)	pH	Conductivity	Temperature °Celsius	Color	Odor
MW-1	94.4 to 84.4	96.4 to 83.9	11/6/1996	99.17	2.61	96.56	--	--	--	7.41	1713	13.5	Clear	None
			4/6/1998	99.29	2.24	97.05	--	--	--	--	--	--	Clear	None
			3/27/2000	99.29	2.70	96.59	1.0	1.0	0.1	6.78	1530	9.6	Clear	None
			2/18/2002	99.29	2.27	97.02	--	--	0.1	--	--	--	Clear	None
			9/10/2002	99.29	5.14	94.15	--	<1.0	4	--	--	--	Clear	None
			12/9/2002	99.29	4.06	95.23	--	--	--	--	--	--	--	--
MW-2	93.3 to 83.3	95.3 to 82.8	11/6/1996	98.12	4.24	93.88	--	--	--	6.82	1515	14.6	Clear	None
			4/6/1998	98.77	3.21	95.56	--	--	--	--	--	--	Clear	None
			3/27/2000	98.77	4.34	94.43	1.0	1.0	0.1	6.76	1300	9.1	Clear	None
			2/18/2002	98.77	4.29	94.48	--	1.0	0.1	--	--	--	Clear	None
			9/10/2002	98.77	4.61	94.16	--	1.5	0.2	--	--	--	Clear	None
			12/9/2002	98.77	2.88	95.89	--	--	--	--	--	--	--	--
MW-3	94.9 to 84.9	96.9 to 84.4	11/6/1996	99.73	4.67	95.06	--	--	--	7.45	1277	14.5	Clear	None
			4/6/1998	99.76	1.42	98.34	--	--	--	--	--	--	Clear	None
			3/27/2000	99.76	1.58	98.18	<1.0	1.0	0.1	6.94	1160	9.0	Clear	None
			2/18/2002	99.76	2.76	97.00	--	1.0	0.3	--	--	--	Clear	None
			9/10/2002	99.76	2.84	96.92	--	1.0	0.2	--	--	--	Clear	None
			12/9/2002	99.76	4.69	95.07	--	--	--	--	--	--	--	--
MW-4	94.3 to 84.3	96.3 to 83.8	11/6/1996	99.08	2.77	96.31	--	--	--	7.36	1278	13.4	Clear	None
			4/6/1998	99.20	1.60	97.60	--	--	--	--	--	--	Clear	None
			3/27/2000	99.20	1.34	97.86	<1.0	1.0	3.0	6.83	1050	8.6	Clear	Possible
			2/18/2002	99.20	3.03	96.17	--	2.0	8.0	--	--	--	Clear	Possible
			9/10/2002	99.20	3.07	96.13	--	1.0	5.0	--	--	--	Clear	None
			12/9/2002	99.20	3.06	96.14	--	--	--	--	--	--	--	--
MW-5	96.1 to 89.1	98.1 to 88.6	12/9/2002	98.58	5.02	93.56	--	2.0	0.2	--	--	--	Clear	None
MW-6	96.1 to 89.1	98.1 to 88.6	12/9/2002	98.70	3.83	94.87	--	2.0	0.5	--	--	--	Clear	None
			3/11/2003	98.70	5.97	92.73	--	--	--	--	--	--	Clear	None
MW-7	97.3 to 90.3	95.3 to 89.8	12/9/2002	99.98	3.44	96.54	--	--	--	--	--	--	Clear	None

* Elevation referenced to arbitrary elevation of +100.00'

**Elevations were re-established 4/6/98

TPVC = top of PVC casing

TABLE 3 Page 1
GROUNDWATER ANALYTICAL RESULTS
APPLETON YARD - FORMER REFUELING AREA
APPLETON, WISCONSIN

	Units	MW-1					MW-2					ES µg/L	PAL µg/L			
		11/6/96	11/26/96	4/8/98	3/27/00	2/18/02	9/10/02	11/6/96	11/26/96	4/8/98	3/27/00			2/18/02	9/10/02	
FOCs																
Benzene	µg/L	<0.19	X	<0.5	<0.5	X	<1.0	<0.19	X	<0.5	<0.5	X	<1.0	5	0.5	
n-Butylbenzene	µg/L	<0.76	X	X	X	X	X	<0.76	X	X	X	X	X	-	-	
sec-Butylbenzene	µg/L	<0.35	X	X	X	X	X	<0.35	X	X	X	X	X	-	-	
MTBE	µg/L	<0.73	X	<1.0	<0.92	X	<4.0	<0.73	X	<1.0	<0.92	X	<4.0	60	12	
Ethylbenzene	µg/L	<0.19	X	<1.0	<0.6	X	<1.0	<0.19	X	<1.0	<0.6	X	<1.0	700	140	
Isopropylbenzene	µg/L	<0.23	X	X	X	X	X	<0.23	X	X	X	X	X	-	-	
p-Isopropyltoluene	µg/L	<0.52	X	X	X	X	X	<0.52	X	X	X	X	X	-	-	
n-Propylbenzene	µg/L	<0.36	X	X	X	X	X	<0.36	X	X	X	X	X	-	-	
Toluene	µg/L	<0.11	X	<1.0	<0.6	X	<1.0	0.16	X	<1.0	<0.6	X	<1.0	1000	200	
Total Trimethylbenzenes	µg/L	<0.81	X	<2.0	<2.6	X	<2.0	<0.81	X	<2.0	<2.6	X	<2.0	480	96	
Total Xylene	µg/L	<0.57	X	<2.0	<1.7	X	<3.0	<0.57	X	<2.0	<1.7	X	<3.0	10,000	1000	
Naphthalene	µg/L	<0.54	X	X	X	X	X	<0.54	X	X	X	X	X	40	8	
PAHs																
Acenaphthene	µg/L	X	<1.6	<0.11	X	X	<0.52	X	<1.4	<0.11	X	X	<0.51	-	-	
Acenaphthylene	µg/L	X	<1.5	<0.08	X	X	<1.0	X	<1.3	<0.08	X	X	<1.0	-	-	
Anthracene	µg/L	X	<0.12	<0.03	X	X	<0.052	X	<0.10	<0.03	X	X	<0.051	-	-	
Benzo(A)Anthracene	µg/L	X	<0.12	<0.06	X	X	<0.052	X	<0.10	<0.06	X	X	<0.051	-	-	
Benzo(A)Pyrene	µg/L	X	<0.24	<0.06	X	X	<0.052	X	<0.20	<0.06	X	X	<0.051	0.2	0.02	
Benzo(B)Fluoranthene	µg/L	X	<0.14	<0.03	X	X	<0.10	X	<0.12	<0.03	X	X	<0.10	0.2	0.02	
Benzo(K)Fluoranthene	µg/L	X	<0.26	<0.03	X	X	<0.052	X	<0.22	<0.03	X	X	<0.051	-	-	
Benzo(C,H,I)Perylene	µg/L	X	<0.26	<0.05	X	X	<0.10	X	<0.22	<0.05	X	X	<0.10	-	-	
Chrysene	µg/L	X	<0.10	<0.04	X	X	<0.052	X	<0.090	<0.04	X	X	<0.051	0.2	0.02	
Dibenzo(A,H) Anthracene	µg/L	X	<0.29	<0.06	X	X	<0.10	X	<0.25	<0.06	X	X	<0.10	-	-	
Fluoranthene	µg/L	X	<0.26	<0.04	X	X	<0.10	X	<0.22	<0.04	X	X	<0.10	400	80	
Fluorene	µg/L	X	<0.063	<0.04	X	X	<0.10	X	<0.055	<0.04	X	X	<0.10	400	80	
Indeno(1,2,3-CD)Pyrene	µg/L	X	<0.13	<0.04	X	X	<0.052	X	<0.11	<0.04	X	X	<0.051	-	-	
1-Methylnaphthalene	µg/L	X	<1.1	<0.06	X	X	<0.52	X	<0.92	<0.06	X	X	<0.51	-	-	
2-Methylnaphthalene	µg/L	X	<1.0	<0.07	X	X	<0.52	X	<0.90	<0.07	X	X	<0.51	-	-	
Naphthalene	µg/L	X	<0.83	<0.05	X	X	<0.52	X	<0.71	<0.05	X	X	<0.51	40	8	
Phenanthrene	µg/L	X	<0.13	<0.08	X	X	<0.052	X	<0.11	<0.08	X	X	<0.051	-	-	
Pyrene	µg/L	X	<0.44	<0.17	X	X	<0.052	X	<0.38	<0.17	X	X	<0.051	250	50	
Sulfate	MG/L	490	X	X	X	523	470	380	X	X	X	337	302	250	125	

ES = NR 140 Enforcement Standard (March 2000)
PAL = NR 140 Preventive Action Limit (March 2000)
X = Compound was not analyzed
MTBE = Methyl-tert-butyl ether

55.2 NR 140 Enforcement Standard Exceedance

TABLE 3 Page 2
GROUNDWATER ANALYTICAL RESULTS
APPLETON YARD - FORMER REFUELING AREA
APPLETON, WISCONSIN

	Units	MW-3				MW-4				TMW-2 3/26/2002	ES µg/L	PAL µg/L		
		11/6/1996	11/26/1996	4/8/1998	3/27/2000	2/18/2002	9/10/2002	11/26/1996	4/8/1998				3/27/2000	2/18/2002
VOCs														
Benzene	µg/L	<0.19	X	<0.5	<0.5	X	<1.0	0.28	X	<0.5	<1.0	<1.0	5	0.5
n-Butylbenzene	µg/L	<0.76	X	X	X	X	X	0.83	X	X	X	X	-	-
sec-Butylbenzene	µg/L	<0.35	X	X	X	X	X	0.79	X	X	X	X	-	-
MTBE	µg/L	<0.73	X	<1.0	<0.92	X	<4.0	<0.73	X	<0.92	<4.0	<4.0	60	12
Ethylbenzene	µg/L	<0.19	X	<1.0	<0.6	X	<1.0	0.72	X	<0.6	<1.0	<1.0	700	140
Isopropylbenzene	µg/L	<0.23	X	X	X	X	X	0.57	X	X	X	X	-	-
p-Isopropyltoluene	µg/L	<0.52	X	X	X	X	X	1.13	X	X	X	X	-	-
m-Propylbenzene	µg/L	<0.36	X	X	X	X	X	0.68	X	X	X	X	-	-
Toluene	µg/L	<0.11	X	<1.0	<0.6	X	<1.0	<0.11	X	<0.6	<1.0	<1.0	1000	200
Total Trimethylbenzenes	µg/L	<0.81	X	<2.0	<2.6	X	<2.0	1.13	X	<2.6	<2.0	<2.0	480	96
Total Xylene	µg/L	<0.57	X	<2.0	<1.7	X	<3.0	1.76	X	<1.7	<3.0	<3.0	10,000	1000
Naphthalene	µg/L	<0.54	X	X	X	X	X	9.95	X	X	X	X	40	8
PAHs														
Acenaphthene	µg/L	X	<1.7	<0.11	X	X	<0.52	X	<1.4	X	X	<0.55	-	-
Acenaphthylene	µg/L	X	<1.5	<0.08	X	X	<1.0	X	<1.3	X	X	6.8	-	-
Anthracene	µg/L	X	<0.12	<0.03	X	X	<0.052	X	<0.11	X	X	0.21	-	-
Benzo(A)Anthracene	µg/L	X	<0.12	<0.06	X	X	<0.052	X	<0.11	X	X	0.26	-	-
Benzo(A)Pyrene	µg/L	X	<0.24	<0.06	X	X	<0.052	X	<0.21	X	X	<0.055	0.2	0.02
Benzo(B)Fluoranthene	µg/L	X	<0.14	<0.03	X	X	<0.10	X	<0.13	X	X	<0.11	0.2	0.02
Benzo(K)Fluoranthene	µg/L	X	<0.26	<0.03	X	X	<0.052	X	<0.23	X	X	<0.055	-	-
Benzo(G,H,I)Perylene	µg/L	X	<0.26	<0.05	X	X	<0.10	X	<0.23	X	X	<0.11	-	-
Chrysene	µg/L	X	<0.11	<0.04	X	X	<0.052	X	<0.093	X	X	<0.055	0.2	0.02
Dibenzo(A,H)Anthracene	µg/L	X	<0.30	<0.06	X	X	<0.10	X	<0.26	X	X	<0.11	-	-
Fluoranthene	µg/L	X	<0.26	<0.04	X	X	<0.10	X	<0.23	X	X	<0.11	400	80
Fluorene	µg/L	X	<0.065	<0.04	X	X	<0.10	X	<0.057	X	X	0.41	400	80
Indeno(1,2,3-CD)Pyrene	µg/L	X	<0.13	<0.04	X	X	<0.052	X	<0.12	X	X	<0.055	-	-
1-Methylnaphthalene	µg/L	X	<1.1	<0.06	X	X	<0.52	X	<0.96	X	X	<0.55	-	-
2-Methylnaphthalene	µg/L	X	<1.1	<0.07	X	X	<0.52	X	<0.93	X	X	1.5	-	-
Naphthalene	µg/L	X	<0.85	<0.05	X	X	<0.52	X	6.2	X	X	<0.55	40	8
Phenanthrene	µg/L	X	<0.13	<0.08	X	X	<0.052	X	<0.12	X	X	<0.055	-	-
Pyrene	µg/L	X	<0.45	<0.17	X	X	<0.052	X	<0.39	X	X	<0.055	250	50
Sulfate	MG/L		X	X	X		266	120	X	X	51	67.5	250	175

X = Compound was not analyzed
MTBE = Methyl-tert-butyl ether

ES = NR 140 Enforcement Standard
PAL = NR 140 Preventive Action Limit
55.2 NR 140 Enforcement Standard Exceedance

TABLE 3 Page 3
GROUNDWATER ANALYTICAL RESULTS
APPLETON YARD - FORMER REFUELING AREA
APPLETON, WISCONSIN

	Units	MW-5 12/9/2002	TMW-1		MW-6		MW-7 12/9/2002	ES µg/L	PAL µg/L
			2/26/2002	9/10/2002	12/9/2002	3/1/2003			
VOCs									
Benzene	µg/L	<1.0	14	9.8	12	<10.0	X	5	0.5
n-Butylbenzene	µg/L	X	X	X	X	X	X	-	-
Sec-Butylbenzene	µg/L	X	X	X	X	X	X	-	-
MTBE	µg/L	<4.0	<4.0	<4.0	<4.0	<40.0	X	60	12
Ethylbenzene	µg/L	<1.0	16.0	<1.0	<1.0	<10.0	X	700	140
Isopropylbenzene	µg/L	X	X	X	X	X	X	-	-
p-Isopropyltoluene	µg/L	X	X	X	X	X	X	-	-
n-Propylbenzene	µg/L	X	X	X	X	X	X	-	-
Toluene	µg/L	<1.0	14.0	<1.0	<1.0	<10.0	X	1000	200
Total Trimethylbenzenes	µg/L	<2.0	33.0	<2.0	<2.0	<20.0	X	480	96
Total Xylene	µg/L	<3.0	8.0	<3.0	<3.0	<30.0	X	10,000	1000
Naphthalene	µg/L	<0.043	X	X	5.9	X	X	40	8
PAHs									
Acenaphthene	µg/L	<0.043	X	X	1.5	X	X	-	-
Acenaphthylene	µg/L	<0.043	X	X	0.13	X	X	-	-
Anthracene	µg/L	<0.043	X	X	<0.053	X	X	-	-
Benzo(A)Anthracene	µg/L	<0.043	X	X	<0.053	X	X	-	-
Benzo(A)Pyrene	µg/L	<0.043	X	X	<0.053	X	X	0.2	0.02
Benzo(B)Fluoranthene	µg/L	<0.043	X	X	<0.053	X	X	0.2	0.02
Benzo(K)Fluoranthene	µg/L	<0.043	X	X	<0.053	X	X	-	-
Benzo(G,H,I)Perylene	µg/L	<0.043	X	X	<0.053	X	X	-	-
Chrysene	µg/L	<0.043	X	X	<0.053	X	X	0.2	0.02
Dibenzo (A,H) Anthracene	µg/L	<0.043	X	X	<0.053	X	X	-	-
Fluoranthene	µg/L	<0.043	X	X	<0.053	X	X	400	80
Fluorene	µg/L	<0.043	X	X	0.92	X	X	400	80
Indeno(1,2,3-CD)Pyrene	µg/L	<0.043	X	X	<0.053	X	X	-	-
1-Methylnaphthalene	µg/L	<0.043	X	X	<0.053	X	X	-	-
2-Methylnaphthalene	µg/L	<0.043	X	X	1.5	X	X	-	-
Naphthalene	µg/L	<0.043	X	X	5.9	X	X	40	8
Phenanthrene	µg/L	<0.043	X	X	<0.053	X	X	-	-
Pyrene	µg/L	<0.043	X	X	<0.053	X	X	250	50
Sulfate	MG/L	498	X	X	8.45	X	104	250	125

ES = NR 140 Enforcement Standard

PAL = NR 140 Preventive Action Limit

55.2 NR 140 Enforcement Standard Exceedance

MW-6 was installed on 11/22/02 to replace abandoned TMW-1.

TABLE 1 page 1 (Prior to 1998)

Boring	Depth (feet)	PID (units)	Soil Description	Wet	Petroleum Odor	DRO (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Total Xylenes (µg/kg)	1,3,4-TNB (µg/kg)	1,3,5-TNB (µg/kg)	MTBE (µg/kg)
GP-1 (8/12/96)	S-1 0-2.0	49	Fill: Ballast, Topsoil, Roots Rd Br Si Cl	No	No	X	X	X	X	X	X	X	X
	S-2 2.0-4.0	63	"	Moist	Yes	48	<25	<25	<25	<50	<25	<25	<25
	S-3 4.0-6.0	52	"	"	"	X	X	X	X	X	X	X	X
	S-4 6.0-8.0	6	"	"	No	X	X	X	X	X	X	X	X
	S-5 8.0-10.0												
GP-2 (8/12/96)	S-1 0-2.0	<1	Fill: BK Si Sa & Grvl Rd Br Si Cl	No	No	X	X	X	X	X	X	X	X
	S-2 2.0-4.0	<1	"	Moist	"	<2.0	<25	<25	<25	<50	<25	<25	<25
	S-3 4.0-6.0	<1	"	"	"	X	X	X	X	X	X	X	X
	S-4 6.0-8.0	<1	"	"	"	X	X	X	X	X	X	X	X
	S-5 8.0-10.0	<1	"	"	"	X	X	X	X	X	X	X	X
GP-3 (8/12/96)	S-1 0-2.0	65	Fill: BK Si Sa, Grvl, Cl Pess Fill: DK Br Si Cl Rd Br Si Cl	No	Yes	X	X	X	X	X	X	X	X
	S-2 2.0-4.0	63	"	"	"	3540	<90	<42	2150	<282	<99	<104	<223
	S-3 4.0-6.0	50	"	Moist	"	X	X	X	X	X	X	X	X
	S-4 6.0-8.0	38	"	"	No	X	X	X	X	X	X	X	X
	S-5 8.0-10.0	20	"	"	"	X	X	X	X	X	X	X	X
GP-4 (8/14/96)	S-1 0-2.0	52	Fill: BK Si Sa, Grvl, Roots Rd Br Si Cl	No	Yes	X	X	X	X	X	X	X	X
	S-2 2.0-4.0	69	"	Moist	"	1500	<90	<42	<45	357	538	171	<223
	S-3 4.0-6.0	13	"	"	No	X	X	X	X	X	X	X	X
	S-4 6.0-8.0	34	"	"	"	X	X	X	X	X	X	X	X
	S-5 8.0-10.0												
GP-5 (8/14/96)	S-1 0-2.0	59	Fill: Ballast, Sa, Grvl, Topsoil Br Si Cl	No	Yes	X	X	X	X	X	X	X	X
	S-2 2.0-4.0	75	"	Moist	"	815	<45	<25	<25	<141	<50	<52	<112
	S-3 4.0-6.0	64	"	"	"	X	X	X	X	X	X	X	X
	S-4 6.0-8.0	51	"	"	No	X	X	X	X	X	X	X	X
	S-5 8.0-10.0	24	"	"	"	X	X	X	X	X	X	X	X
GP-6 (8/14/96)	S-1 0-2.0	<1	Fill: Ballast, Sa, Grvl, Topsoil Rd Br Si Cl	No	No	X	X	X	X	X	X	X	X
	S-2 2.0-4.0	<1	"	Moist	"	<1.8	<25	<25	<25	<50	<25	<25	<25
	S-3 4.0-6.0	<1	"	"	"	X	X	X	X	X	X	X	X
	S-4 6.0-8.0	<1	"	"	"	X	X	X	X	X	X	X	X
	S-5 8.0-10.0	<1	"	"	"	X	X	X	X	X	X	X	X
GP-7 (8/12/96)	S-1 0-2.0	<1	Fill: Ballast, Sa, Si	No	No	X	X	X	X	X	X	X	X
	S-2 2.0-4.0	<1	"	Moist	"	4.6	<25	<25	<25	<50	31	<25	<25
	S-3 4.0-6.0	<1	"	"	"	X	X	X	X	X	X	X	X
	S-4 6.0-8.0	<1	"	"	"	X	X	X	X	X	X	X	X
	S-5 8.0-10.0	<1	"	"	"	X	X	X	X	X	X	X	X
GP-8 (8/12/96)	S-1 0-2.0	90	Fill: BK Sa, Grvl, Si Br Si Cl	No	No	14200	<450	679	2140	8630	19500	8650	<1120
	S-2 2.0-4.0	122	"	Moist	Yes	X	X	X	X	X	X	X	X
	S-3 4.0-6.0	113	"	"	"	X	X	X	X	X	X	X	X
	S-4 6.0-8.0	73	"	"	"	X	X	X	X	X	X	X	X
	S-5 8.0-10.0	7	"	"	No	<1.8	<25	<25	<25	<50	<25	<25	<25
NR 720 Residual Contaminant Levels (µg/kg)													
NR 746 Table 1 Soil Screening Levels (µg/kg)													
NR 746 Table 2 Direct Contact Concentrations (µg/kg)													

Notes.

X = Not Analyzed	Cl = Clay
DRO = Modified Diesel Range Organics	Gr = Gravel
TriMB = Triethylbenzene	Bk = Black
MTBE = Methyl tert Butyl Ether	Sl = Silty
	Sa = Sand
	Dk = Dark

Soil sample HA-2 was processed through water leach test and the leachate was analyzed for PVOCs. No PVOCs were detected in the leachate.

TABLE 1 page 2 (Prior to 1998)
SOIL FIELD OBSERVATIONS AND LABORATORY RESULTS
APPLETON YARD - FORMER REFUELING AREA
APPLETON, WISCONSIN

Boring	Depth (feet)	PID (units)	Soil Description	Wet	Petroleum Odor	DRO (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Total Xylenes (µg/kg)	1,2,4-TMB (µg/kg)	1,3,5-TMB (µg/kg)	MTBE (µg/kg)
GP-9 (10/9/96)	S-1 0-2.0	<1	Fill: Ballast, Blk Si Sa	No	No	x	x	x	x	x	x	x	x
	S-2 2.0-4.0	<1	Rd Br Si Cl	Moist	"	<1.9	<25	<25	<25	<50	<25	<25	<25
	S-3 4.0-6.0	<1	"	"	"	"	"	"	"	"	"	"	"
	S-4 6.0-8.0	<1	"	"	"	"	"	"	"	"	"	"	"
	S-5 8.0-10.0	<1	"	"	"	"	"	"	"	"	"	"	"
	S-6 10.0-12.0	<1	"	"	"	"	"	"	"	"	"	"	"
	S-7 12.0-14.0	<1	"	"	"	"	"	"	"	"	"	"	"
	S-8 14.0-16.0	<1	"	"	"	"	"	"	"	"	"	"	"
HA-1 (10/2/96)	S-1 0-2.0	<1	Fill: Blk Si Sa, Grv	No	No	x	x	x	x	x	x	x	x
	S-2 2.0-4.0	<1	Rd Br Si Cl	"	"	x	x	x	x	x	x	x	x
	S-3 4.0-6.0	12	"	Moist	Yes	205	<25	<25	<25	<50	<25	<25	<25
HA-2 (10/2/96)	S-1 0-2.0	74	Fill: Blk Sa, Trace Grv	No	Yes	23100	<25	521	1610	3940	4690	<25	<44
	S-2 2.0-4.0	67	Fill: Dk Br Si Cl	"	"	x	x	x	x	x	x	x	x
	S-3 4.0-6.0	1	Rd Br Si Cl	Moist	No	18	<25	<25	<25	<50	<25	29	<25
MW-1	S-1 0-2.0	<1	Fill: Dk Br Si Sa	No	No	x	x	x	x	x	x	x	x
	S-2 2.0-4.0	<1	"	Moist	"	x	x	x	x	x	x	x	x
	S-3 4.0-6.0	<1	Rd Br Si Cl	"	"	x	x	x	x	x	x	x	x
	S-4 6.0-8.0	<1	"	"	"	x	x	x	x	x	x	x	x
	S-5 8.0-10.0	<1	"	"	"	x	x	x	x	x	x	x	x
	S-6 10.0-12.0	<1	"	"	"	x	x	x	x	x	x	x	x
	S-7 12.0-14.0	<1	"	"	"	x	x	x	x	x	x	x	x
MW-2 (10/2/96)	S-1 0-2.0	<1	Fill: Dk Br Si Sa	No	No	x	x	x	x	x	x	x	x
	S-2 2.0-4.0	<1	Rd Br Si Cl	Moist	"	<1.9	<25	<25	<25	<50	<25	<25	<25
	S-3 4.0-6.0	<1	"	"	"	x	x	x	x	x	x	x	x
	S-4 6.0-8.0	<1	"	"	"	x	x	x	x	x	x	x	x
	S-5 8.0-10.0	<1	"	"	"	x	x	x	x	x	x	x	x
	S-6 10.0-12.0	<1	"	"	"	x	x	x	x	x	x	x	x
	S-7 12.0-14.0	<1	"	"	"	x	x	x	x	x	x	x	x
MW-3 (10/2/96)	S-1 0-2.0	<1	Fill: Blk Si Sa, Trace Grv	No	No	x	x	x	x	x	x	x	x
	S-2 2.0-4.0	<1	Fill: Dk Br Si Cl	Moist	"	<2.0	<25	<25	<25	<50	<25	<25	<25
	S-3 4.0-6.0	<1	Rd Br Si Cl	"	"	x	x	x	x	x	x	x	x
	S-4 6.0-8.0	<1	"	"	"	x	x	x	x	x	x	x	x
	S-5 8.0-10.0	<1	"	"	"	x	x	x	x	x	x	x	x
	S-6 10.0-12.0	<1	"	"	"	x	x	x	x	x	x	x	x
	S-7 12.0-14.0	<1	"	"	"	x	x	x	x	x	x	x	x
MW-4	S-1 0-2.0	87	Fill: Blk Sa, Trace Fine Grv	No	Yes	x	x	x	x	x	x	x	x
	S-2 2.0-4.0	105	Fill: Dk Br Si Cl	Moist	"	x	x	x	x	x	x	x	x
	S-3 4.0-6.0	97	Rd Br Si Cl	"	"	x	x	x	x	x	x	x	x
	S-4 6.0-8.0	75	"	"	"	x	x	x	x	x	x	x	x
	S-5 8.0-10.0	30	"	"	"	x	x	x	x	x	x	x	x
	S-6 10.0-12.0	49	"	"	"	x	x	x	x	x	x	x	x
	S-7 12.0-14.0	38	"	"	No	x	x	x	x	x	x	x	x
NR 720 Residual Contaminant Levels (µg/kg)													
NR 746 Table 1 Soil Screening Levels (µg/kg)													
NR 746 Table 2 Direct Contact Concentrations (µg/kg)													
250						5.5	1500	2900	4100	42000	33000	11000	--
8500						1100	38000	4600	42000	42000	83000	11000	--
1100						--	--	--	--	--	--	--	--

Notes:
X = Not Analyzed
DRO = Modified Diesel Range Organics
TMB = Trimethylbenzene
MTBE = Methyl tert Butyl Ether
Cl = Clay
Grv = Gravel
Blk = Black
Dk = Dark
Br = Brown
Rd = Red
St = Silty
Sa = Sand

Soil sample HA-2 was processed through water leach test and the leachate was analyzed for PVOs. No PVOs were detected in the leachate.

TABLE 1 page 3
SOIL FIELD OBSERVATIONS AND LABORATORY RESULTS
APPLETON YARD - FORMER REFUELING AREA
APPLETON, WISCONSIN

Boring	Depth (feet)	PID (units)	FID (units)	Soil Description	Wet *	Petroleum Odor	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Total Xylenes (µg/kg)	1,2,4-TMB (µg/kg)	1,3,5-TMB (µg/kg)	MTBE (µg/kg)
SB-10 (4/8/98)	S-1 0.5-2.5	41	10	Fill: Sand & Grvl	Yes	Yes	<32	<32	51	125	212	140	<32
	S-2 2.5-4.5	140	130	Fill: Sand & Grvl	Yes	Yes	x	x	x	x	x	x	x
SB-11 (4/8/98)	S-1 0.5-2.5	236	550	Fill: Sand & Grvl	Yes	Yes	<279	<279	1067	1465	7428	4220	<279
	S-2 2.5-4.5	150	330	Fill: Sand & Grvl	Yes	Yes	x	x	x	x	x	x	x
SB-12 (4/8/98)	S-1 0.5-2.5	104	140	Fill: Sand & Grvl	Yes	Yes	<122	<122	249	202	<122	<122	<122
	S-2 2.5-4.5	122	205	Fill: Sand & Grvl	Yes	Yes	x	x	x	x	x	x	x
SB-13 (4/8/98)	S-1 0.5-2.5	2	12	Fill: Sand & Grvl	Yes	No	<33	<33	<33	<66	<33	<33	<33
	S-2 2.5-4.5	4	10	Fill: Sand & Grvl	Yes	No	x	x	x	x	x	x	x
SB-14 (4/8/98)	S-1 0.5-2.5	135	93	Fill: Sand & Grvl	Yes	Yes	<29	<29	<29	38	<29	<29	<29
	S-2 2.5-4.5	130	75	Fill: Sand & Grvl	Yes	Yes	x	x	x	x	x	x	x
B-8A (2000) (12-27-00)	0.0-1.0	4	-	Fill: Sand & Grvl	No	Yes	x	x	x	x	x	x	x
GP-11 (2-27-01)	S-1 0.5-2.5	-	-	Fill: Sand & Grvl	-	No	x	x	x	x	x	x	x
GP-12 (2-27-01)	S-1 1.0-3.0	10	-	Br Cl & Grvl	-	No	x	x	x	x	x	x	x
GP-13 (2-27-01)	S-1 0.5-2.5	<1	-	Sand & Grvl	-	No	x	x	x	x	x	x	x
GP-14 (2-27-01)	S-1 0.5-2.5	<1	-	Fill: Sand & Grvl	-	No	x	x	x	x	x	x	x
GP-15 (2-27-01)	S-1 0.5-0.8	25	-	Fill: Sand & Grvl	-	Yes	x	x	x	x	x	x	x
GP-16 (2-27-01)	S-1 0.5-2.5	3	-	Fill: Sand/Grvl & Cl	-	No	x	x	x	x	x	x	x
GP-17 (2-27-01)	S-1 0.5-2.5	4	-	Fill: Sand/Grvl & Cl	-	No	x	x	x	x	x	x	x
NR 720 Residual Contaminant Levels (µg/kg)													
NR 746 Table 1 Soil Screening Levels (µg/kg)													
NR 746 Table 2 Direct Contact Concentrations (µg/kg)													
* Soil samples were wet from surface water due to recent precipitation.													
							5.5	1500	2900	4100	--	--	--
							8500	38000	4600	42000	83000	11000	--
							1100	--	--	--	--	--	--

Notes:
X = Not Analyzed
DRO = Modified Diesel Range Organics
TMB = Trimethylbenzene
MTBE = Methyl tert Butyl Ether
Br = Brown
Rd = Red
Si = Silty
Sa = Sand
Cl = Clay
Grvl = Gravel
Bk = Black
Dk = Dark
Soil sample HA-2 was processed through water leach test and the leachate was analyzed for PVOCS. No PVOCS were detected in the leachate.

TABLE 1 page 4
SOIL PAH LABORATORY RESULTS
APPLETON YARD - FORMER REFUELING AREA
APPLETON, WISCONSIN

Parameter	Units	HA-2A 0-1' (57798)	GP-4A 0-1' (57798)	B-8A (2000) Q-1' (112-27-00)	SB-10 S-1, 0.5-2.5' (48998)	SB-11 S-1, 0.5-2.5' (48998)	SB-12 S-1, 0.5-2.5' (48998)	SB-13 S-1, 0.5-2.5' (48998)	SB-14 S-1, 0.5-2.5' (48998)	GP-11 S-1, 0.5-2.5' (2-27-01)	GP-12 S-1, 1.0-3.0' (2-27-01)	GP-13 S-1, 0.5-2.5' (2-27-01)	GP-14 S-1, 0.5-2.5' (2-27-01)	GP-15 S-1, 0.5-0.8' (2-27-01)	GP-16 S-1, 0.5-2.5' (2-27-01)	GP-17 S-1, 0.5-1.5' (2-27-01)	Suggested PAH Clean Up Levels, WISCONSIN 1997			Total Action
																	Ground Water Pathway	Non-industrial		
																		Ingestion	Inhalation	
Acenaphthene	(mg/kg)	<0.359	<0.238	15.2	<0.0047	1.52	<0.0045	<0.0049	<0.0043	<0.02	<0.019	<0.018	0.031	1.06	0.078	<0.019	38	900	nd	60000
Acenaphthylene	(mg/kg)	<0.335	<0.222	7.84	<0.0034	<0.0038	<0.0033	<0.0035	<0.0031	<0.024	<0.022	<0.022	<0.02	<0.023	0.028	<0.023	0.7	18	nd	390
Anthracene	(mg/kg)	<0.026	<0.017	4.13	<0.0013	<0.0014	<0.0012	<0.0013	<0.0012	<0.02	<0.018	<0.018	0.111	6.71	0.031	<0.019	3,000	5000	nd	300000
Benzo(A)Anthracene	(mg/kg)	<0.026	<0.017	<0.086	<0.0025	<0.0028	<0.0024	<0.0026	<0.0023	<0.025	<0.023	<0.023	0.051	0.024	<0.027	<0.024	17	0.388	11	150
Benzo(A)Pyrene	(mg/kg)	<0.051	<0.035	<0.474	<0.0025	<0.0028	<0.0024	0.016	<0.0023	<0.019	<0.018	<0.018	0.037	<0.018	<0.020	<0.018	48	0.088 *	1.6	22
Benzo(B)Fluoranthene	(mg/kg)	<0.031	<0.021	<0.474	<0.0013	<0.0014	<0.0012	0.0280	<0.0012	<0.019	<0.018	<0.018	0.059	<0.018	<0.020	<0.018	360	0.388	4.6	66
Benzo(K)Fluoranthene	(mg/kg)	<0.057	<0.038	<0.849	<0.0013	0.0189	<0.0012	0.0094	<0.0012	<0.035	<0.032	<0.032	0.058	<0.033	<0.037	<0.033	870	0.88	380	5300
Benzo(G,H,I)Perylene	(mg/kg)	<0.023	<0.015	<0.948	<0.0016	<0.0024	<0.0021	0.00624	<0.0020	<0.039	<0.035	<0.035	<0.033	<0.037	<0.041	<0.037	6800	1.8	1100	7700
Chrysene	(mg/kg)	<0.023	<0.015	<1.32	<0.0016	<0.0018	<0.0016	<0.0017	<0.0015	<0.023	<0.021	<0.021	0.081	0.040	<0.025	<0.022	37	8.8	270	3800
Dibenz(A,H) Anthracene	(mg/kg)	<0.065	<0.043	<1.21	<0.0025	<0.0028	<0.0024	<0.0026	<0.0023	<0.049	<0.045	<0.045	<0.042	0.047	<0.052	<0.047	500	600	nd	40000
Fluoranthene	(mg/kg)	<0.057	<0.038	4.53	<0.0016	<0.0018	<0.0016	<0.0017	<0.0015	0.015	<0.014	0.018	0.150	0.077	0.016	<0.014	500	600	nd	40000
Fluorene	(mg/kg)	1.58	16.8	26.3	<0.0016	1.970	0.198	<0.0017	<0.0015	<0.025	<0.023	<0.023	0.063	0.025	0.141	<0.029	100	600	nd	40000
Indeno(1,2,3-CD)Pyrene	(mg/kg)	<0.029	<0.019	<1.32	0.0193	<0.0018	<0.0016	0.0114	<0.0015	<0.054	<0.05	<0.049	<0.045	<0.051	<0.057	<0.051	680	0.388	54	750
1-Methylnaphthalene	(mg/kg)	17	101	115	1.580	20.2	1.260	0.0191	0.0099	<0.022	0.021	<0.020	0.585	18.3	0.742	0.023	23	1100	nd	70000
2-Methylnaphthalene	(mg/kg)	6.24	256	178	2.600	15.3	0.152	0.0756	<0.0027	<0.022	<0.02	<0.020	0.667	28.9	0.997	0.035	20	600	nd	40000
Naphthalene	(mg/kg)	5.06	47	18.5	0.837	5.18	<0.021	0.0099	<0.0020	<0.018	<0.017	<0.017	0.321	7.54	0.238	0.021	0.4	60	100 *	4000
Phenanthrene	(mg/kg)	2.87	30.6	67.4	1.07	3.98	0.719	<0.0035	0.029	0.026	<0.019	0.023	0.461	5.34	0.289	0.119	1.8	90 *	160	390
Pyrene	(mg/kg)	<0.098	<0.065	10.2	<0.0072	<0.0079	<0.0070	<0.0075	<0.0066	<0.019	<0.017	0.020	0.188	0.274	0.027	0.021	8,700	500	nd	30000

Notes:

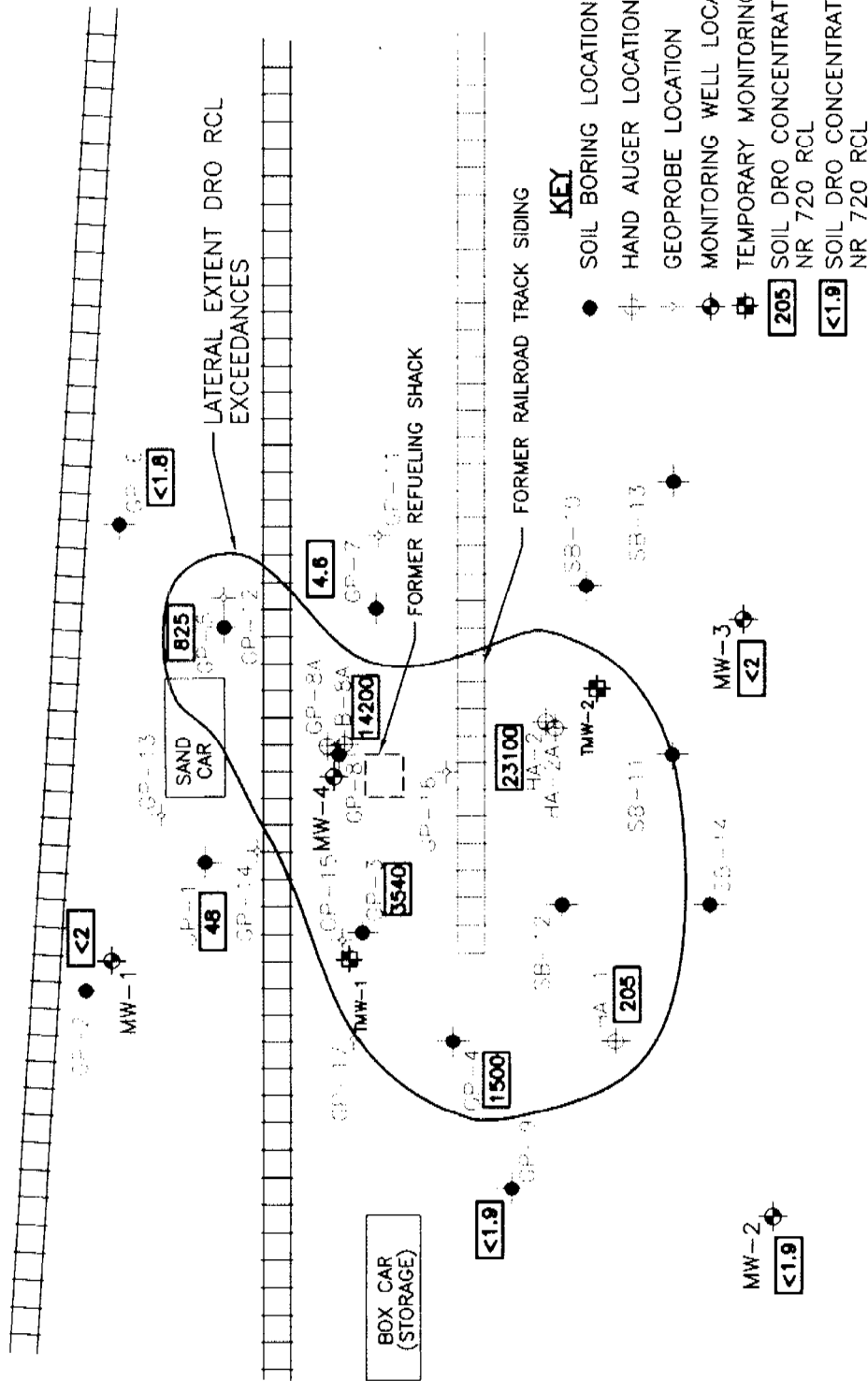
nd = not determined

++ = Sample diluted for analysis

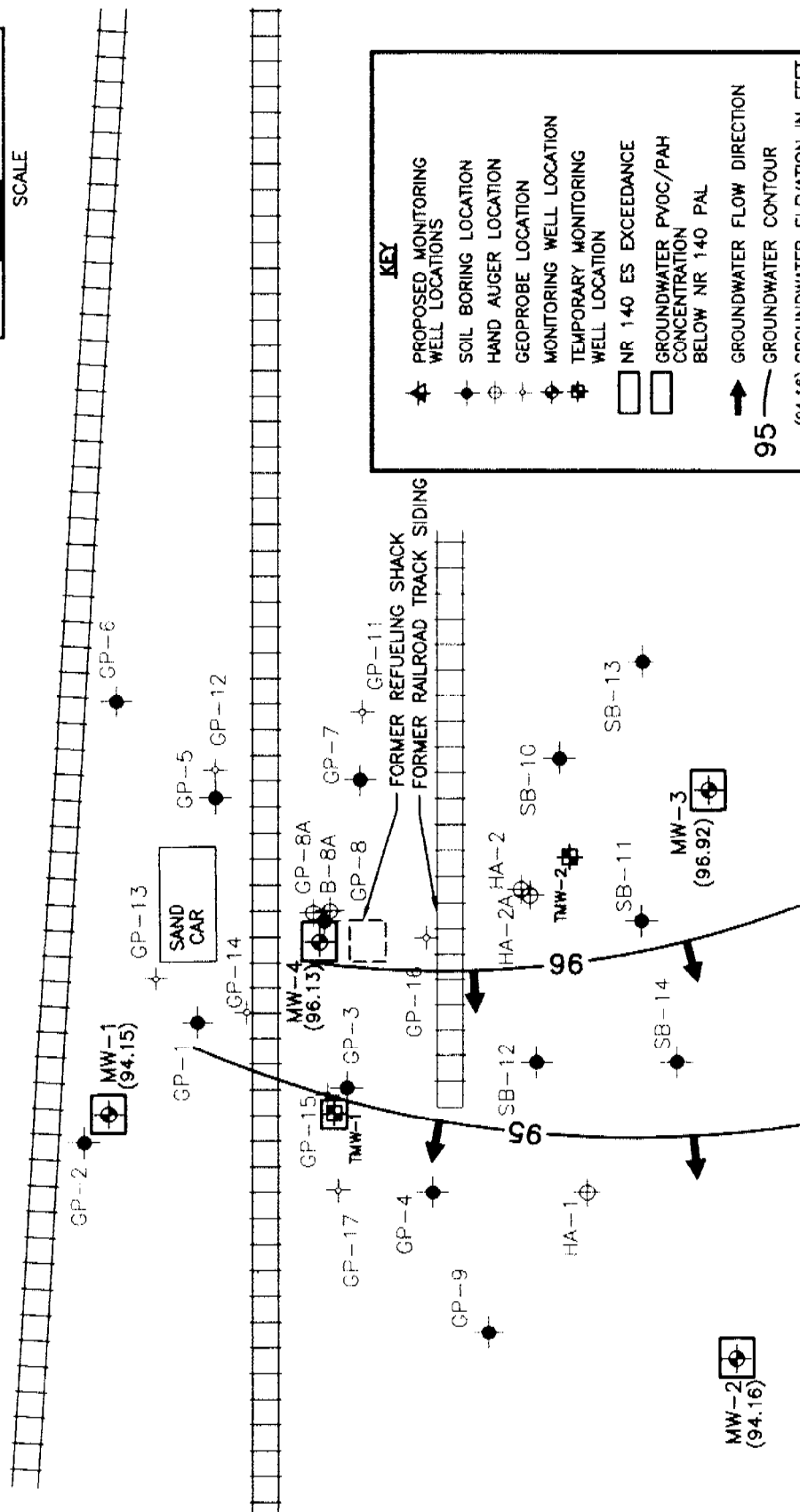
<686 = Result less than practical quantitation limit

15 Groundwater Pathway RCL Exceedance

* As allowed under NR 720.19 (5) the excess cancer risk for the class B2 carcinogen benzo (a) pyrene was raised from 10^{-7} to 10^{-6} , yielding a 10-fold increase of the site specific RCL from the suggested RCL. Also the excess cancer risk for the class D carcinogens naphthalene and phenanthrene were raised from 2×10^{-7} to 10^{-6} , yielding a 5-fold increase of the site specific RCL from the suggested RCL.



LATERAL EXTENT SOIL DRO EXCEEDANCES FOX VALLEY & WESTERN APPLETON YARD-FORMER REFUELING AREA APPLETON, WISCONSIN		DRAWN BY J.R.L.	DATE 10/14/02
 STS Consultants Ltd. Consulting Engineers		CHECKED BY R.J.M.	DATE 10/14/02
		APPROVED BY R.A.M.	DATE 10/14/02
		CADD FILE X:\PROJECTS\DWG2002\22046\XH\422046XH002.dwg	
STS PROJECT NO. 22046XH		SCALE 1"=30'	
STS PROJECT FILE 422046XH002.dwg		FIGURE NO. 3	



STS Consultants Ltd.
Consulting Engineers

STS PROJECT NO.
22046XH

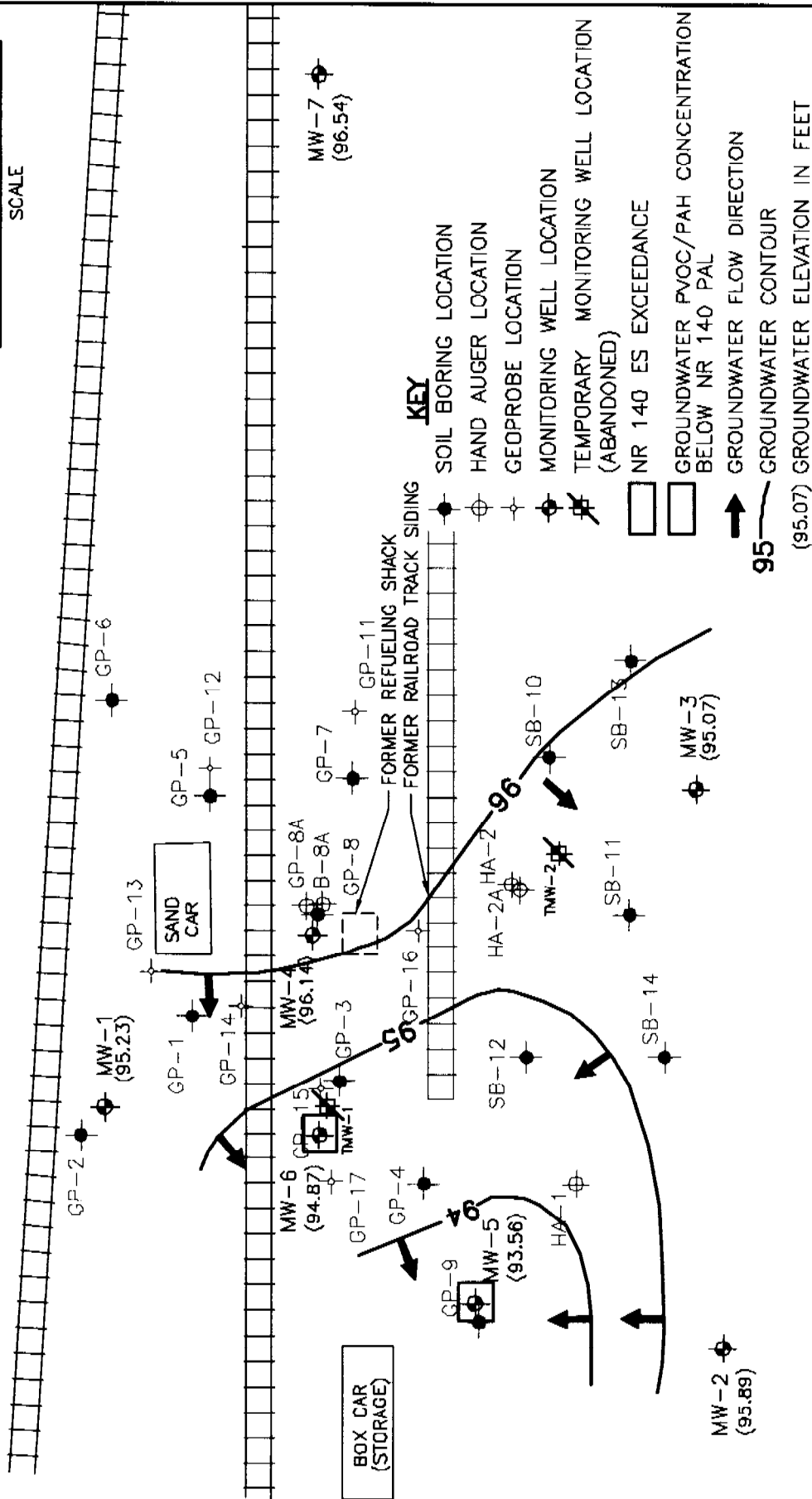
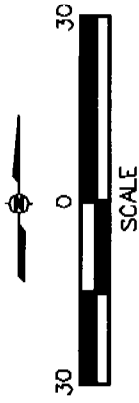
STS PROJECT FILE
422046XH001.dwg

SCALE
1" = 30'

FIGURE NO.
6

GROUNDWATER CONTOUR DIAGRAM (09/10/02)
APPLETON YARD—FORMER REFUELING AREA
APPLETON, WISCONSIN

DRAWN BY	J.R.L.	DATE	11/14/02
CHECKED BY	R.J.M.	DATE	11/14/02
APPROVED BY	R.A.M.	DATE	11/14/02
CAD FILE	X:\PROJECTS\DWG2002\22046\XH\422046XH001.dwg		



GROUNDWATER CONTOUR DIAGRAM (12/09/02) APPLETON YARD-FORMER REFUELING AREA APPLETON, WISCONSIN



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STS PROJECT NO.
22046XH

STS PROJECT FILE
422046XH005.dwg

SCALE
1" = 30'

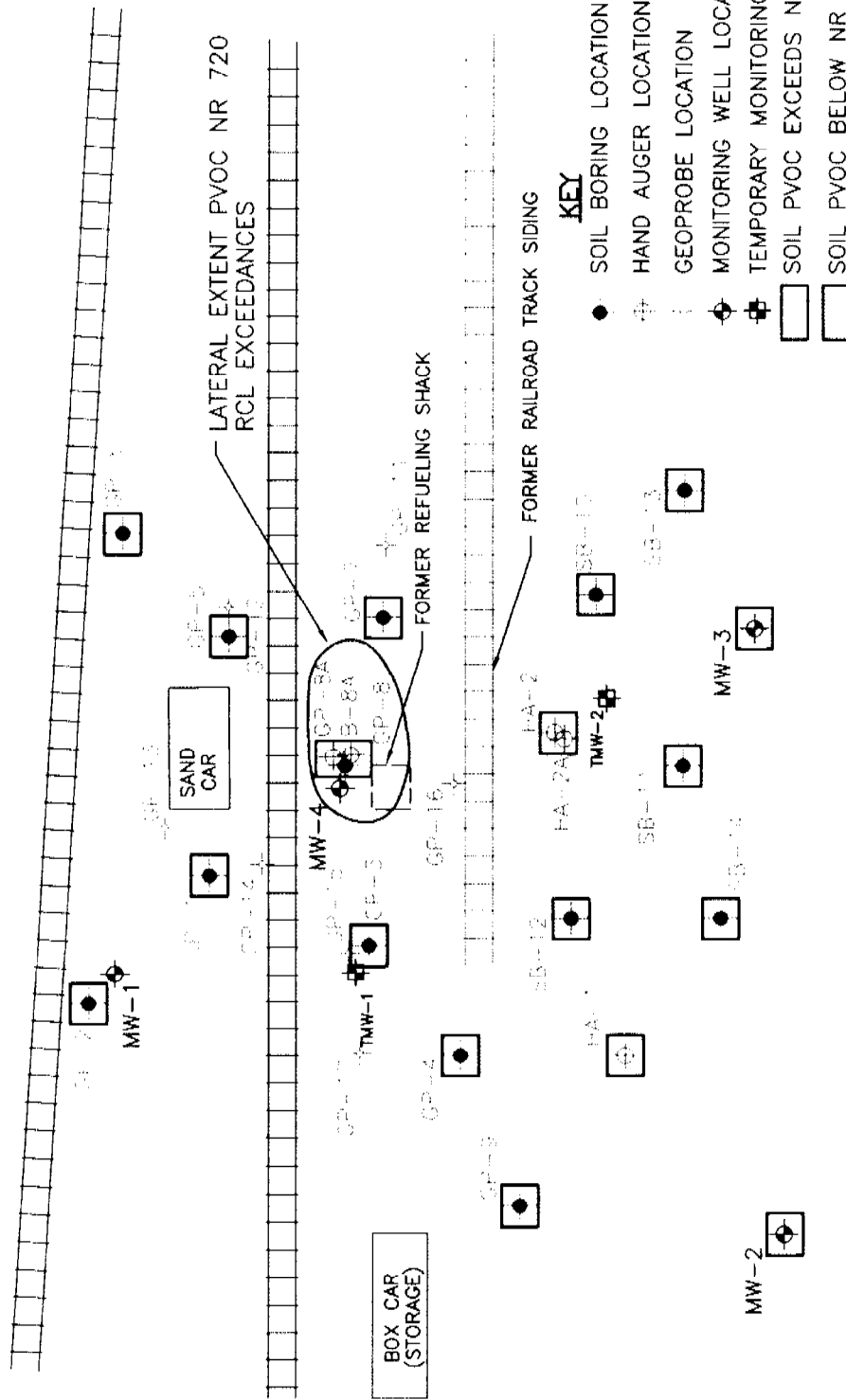
FIGURE NO.
7

DRAWN BY J.M.R. DATE 12/30/02

CHECKED BY R.J.M. DATE 12/30/02

APPROVED BY R.A.M. DATE 12/30/02

CAD FILE X:\PROJECTS\DWG2002\22046\XH\422046XH006.dwg



LATERAL EXTENT SOIL PVOC NR 720
RCL EXCEEDANCES
FOX VALLEY & WESTERN
APPLETON YARD-FORMER REFUELING AREA
APPLETON, WISCONSIN



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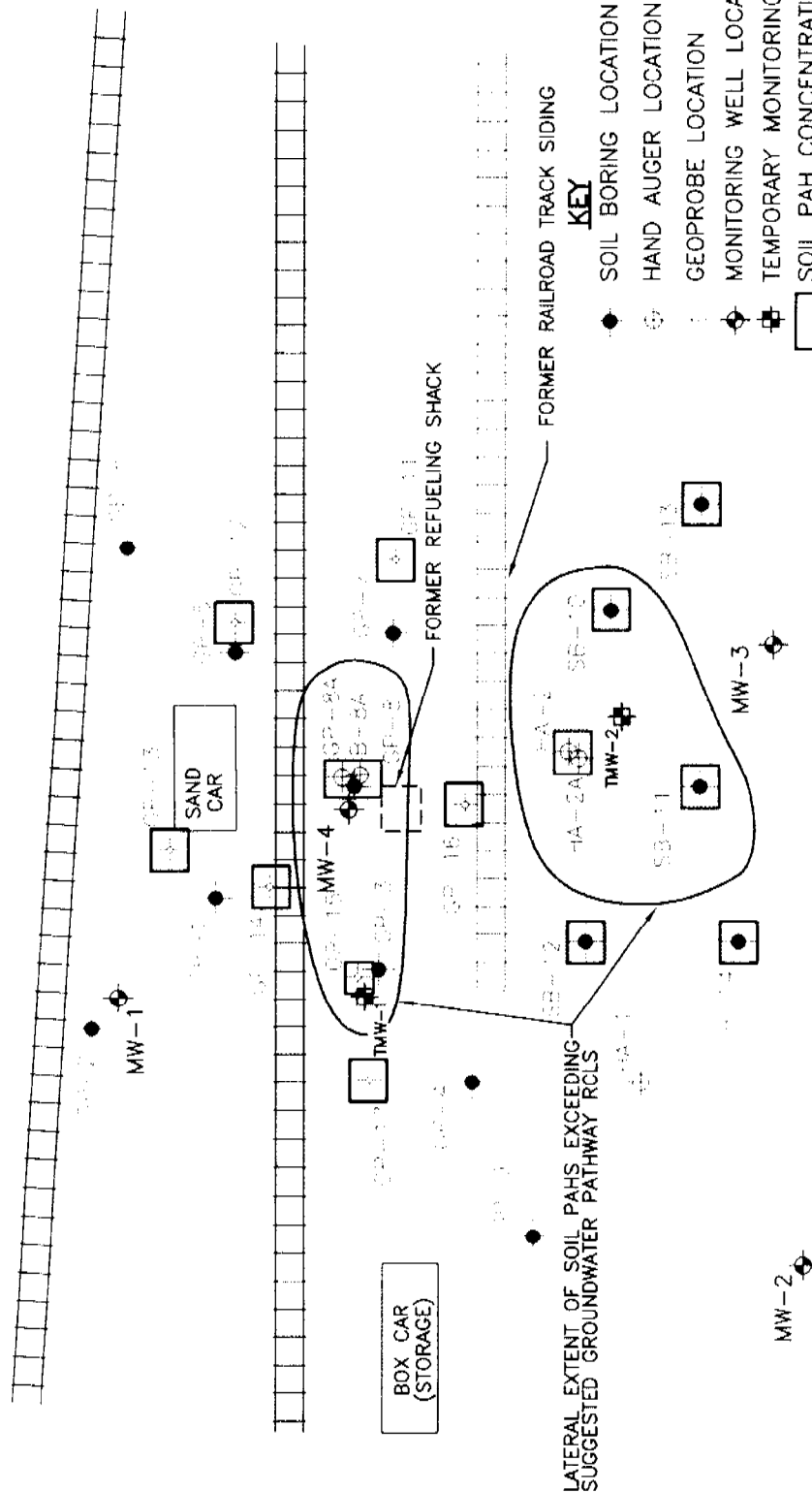
STS PROJECT NO.
22046XH

STS PROJECT FILE
422046XH003.dwg

SCALE
1"=30'

FIGURE NO.
4

DRAWN BY	J.R.L.	DATE	10/14/02
CHECKED BY	R.J.M.	DATE	10/14/02
APPROVED BY	R.A.M.	DATE	10/14/02
CAD FILE	X:\PROJECTS\DWG2002\22046\XH\422046XH003.dwg		



STS Consultants Ltd.
Consulting Engineers

STS PROJECT NO.	22046XH
STS PROJECT FILE	422046XH004.dwg
SCALE	1"=30'
FIGURE NO.	5

LATERAL EXTENT SOIL PAH EXCEEDANCES OF
SUGGESTED GROUNDWATER PATHWAY RCLs
FOX VALLEY & WESTERN
APPLETON YARD-FORMER REFUELING AREA
APPLETON, WISCONSIN

DRAWN BY	J.R.L.	DATE	10/14/02
CHECKED BY	R.J.M.	DATE	10/14/02
APPROVED BY	R.A.M.	DATE	10/14/02
CAD FILE	X:\PROJECTS\02046XH004.dwg		

STATEMENT OF PROPERTY LEGAL DESCRIPTION

As required by s.NR726.05(3) of the Wisconsin Administrative Code, I am providing this signed statement that to the best of my knowledge the legal descriptions that are attached to this statement are complete and accurate for the Canadian National Appleton Yard property located at the intersection of Whitman Avenue and Second Street, Appleton, Wisconsin.

X *Geoffrey C. Nokes*
(Signature)

Date 5-13-03

GEOFFREY C. NOKES
(Name)

MANAGER ENVIRONMENT
(Title)

CANADIAN NATIONAL RAILWAY
(Company)